Haley Morgan

Developing software to fuse multisource data and perform analyses informing end-user decision-making.

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Location	Watertown, MA	**Personal**	haleyemorgan.com

SKILLS

Languages:	Python, Java, JavaScript, C++, SQL, HTML, CSS, YARA
Frameworks/Libraries:	numPy, pandas, Flask, Matplotlib, Jinja, Bootstrap, React
Tooling:	Vim, Git/GitHub, Confluence (Jira, BitBucket), Eclipse, VS Code, LaTeX
Other:	Debugging, mentoring, code testing, teamwork, technical writing, OOP

PROFESSIONAL EXPERIENCE

OCT 2019 - PRESENT **Research Programmer – Boston Fusion Corp.** (Lexington, MA)

- Design and develop machine learning software for anomaly detection research programs in direct consultation with project Principal Investigator (PI)
- Develop parsers to fuse multisource data to develop and integrate massive processed datasets for use in predictive analytics and software programs
- Lead UI development for design, build, and production of full-stack web applications according to client specifications and needs
- Research solutions, develop algorithms, and validate outcomes in collaboration with a team of data scientists and programmers

OCT 2018 – SEP 2019 **Information Privacy and Compliance Analyst – Clark University** (Worcester, MA)

- Collaborated with end users to continuously collect and analyze functional requirements and use cases for all enterprise projects, evolving solutions as needed
- Developed and maintained a system to triage and monitor malicious phishing emails using regex rules written in the YARA language to decrease exposure of compromised accounts
- Assisted in security testing response efforts to secure and stabilize enterprise applications, upholding the CIA triad

APR 2017 – OCT 2018 **Engineer I – Tetra Tech** (Marlborough, MA)

- Performed site and system redesign through continuous iterations as member of an interdisciplinary team to eliminate costly and unnecessary complexities
- Applied technical knowledge to design Department of Defense (DoD) and USAID international bases/sites using AutoCAD
- Maintained Active Secret Security clearance for ability to work on classified projects

SIDE PROJECTS

MAR 2020 – PRESENT **Value Investment Research Application**

Developing an investment research application that accesses the SEC's EDGAR system, retrieves filings, scrapes, and analyzes historical financial statements to inform investment decisions using Python

MAY 2020 – JUN 2020 **Macronutrient Calculator**

Developed a macronutrient calculator using for a personal training/fitness company using a combination of Python, Flask, Jinja templates, HTML, CSS, and JavaScript

EDUCATION

JAN 2020 - PRESENT **University of Pennsylvania (UPenn)**

Professional Certificate, Computer Science Essentials for Software Development

MAY 2016 **Worcester Polytechnic Institute (WPI)**

Bachelor of Science, Civil Engineering